

A schematic diagram of a fluid control system for a wellbore. A vertical wellbore 10 is shown on the left, with a fluid level 12 indicated by a horizontal line. A valve 26 is located on the wellbore wall. A fluid conduit 30 is connected to the wellbore at a point 52. The conduit 30 includes a section 42 filled with a porous medium 44. A valve 46 is located in the conduit 30. A fluid conduit 48 connects the conduit 30 to a reservoir 60. A valve 64 is located in the conduit 48. A fluid conduit 58 connects the reservoir 60 back to the wellbore 10. A valve 56 is located in the conduit 58. A fluid conduit 54 is also shown, connected to the wellbore 10 and the conduit 30. Arrows indicate the flow direction: from the wellbore 10 through the conduit 30 and 48 to the reservoir 60, and from the reservoir 60 through the conduit 58 back to the wellbore 10.

Figure 1

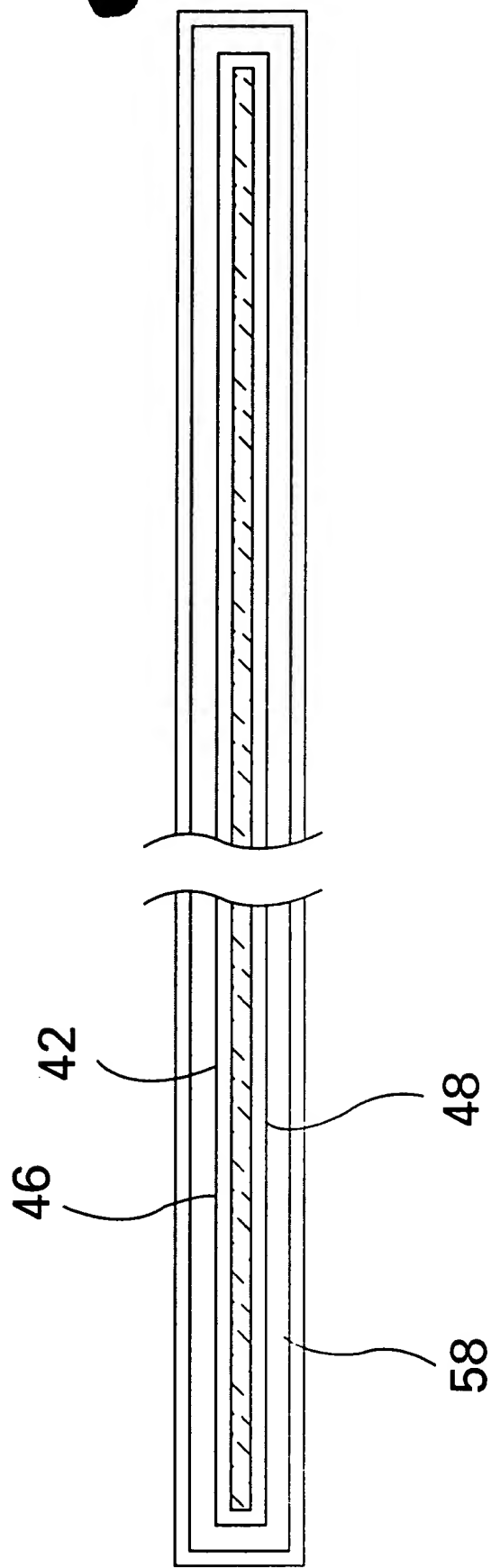


Figure 2

Figure 3